

MAJOR FUNCTION

The Class "B" Operators perform a variety of skilled and semi-skilled work related to the operation and maintenance of the wastewater treatment plant, as well as some administrative duties while working on an assigned shift. The Class "B" Operator will perform duties with a broader scope of authority and be expected to exercise greater problem solving and independent decision making skills than a Class "C" Operator. Work is reviewed through inspection and by observing the effectiveness of plant operations through the review of shift reports and chemical laboratory tests. The employee will be expected to carry out routine duties, as performed by a Wastewater Plant Operator, and through understanding and performing more advanced wastewater treatment plant operations as the incumbent prepares for certification as a Wastewater Plant Operator "A."

ESSENTIAL AND OTHER IMPORTANT JOB DUTIES**Essential Duties**

Independently performs assigned work under a Certified Wastewater Operator (level A, or higher) that includes: Inspects and evaluates treatment processes and equipment that control the operation and effectiveness of an Advanced Wastewater Treatment (AWT) wastewater treatment facility in order to optimize performance, maintain regulatory compliance, and minimize local and/or plant wide adverse impacts while taking into consideration cost, equipment capabilities, and environmental impacts. Adjusts aeration system, valves, solids handling system and other equipment so as to maintain the highest degree of treatment. Utilizes available tools to perform operational duties and document work activities including but not limited to SCADA systems, operational database, and computerized maintenance management system (CMMS). Records and enters operational data in database, records work details in maintenance database, completes work requests and retrieves work order details. Reads and interprets a variety of charts and meters, keeping log sheets, maintains simple records of shift operations and preparing reports. Proficiently monitors flow rates, and conducts water quality analysis of dissolved oxygen, chlorine residual, pH, turbidity, temperature, mixed liquor suspended solids (MLSS), total Nitrogen and other plant conditions. Reliably isolates, tags out and takes appropriate actions required to make ready systems and equipment to support/perform maintenance activities. Adjusts chemical injection systems to achieve optimum treatment results by evaluating on-line metering/monitoring data and be able to make decision based on analytical results and perform minor maintenance on chemical injection systems and process analyzers. Troubleshoots equipment malfunctions by performing preventative maintenance diagnostics, and routine preventative maintenance. Responds to electrical malfunctions or power outages by properly resetting, restarting, and bringing systems for plant operations back on-line. Provides wastewater laboratory analysis of Total Nitrogen, pH, TSS and calibrates lab equipment, process instrumentation, control systems, on line analytical equipment to ensure compliance and accuracy. Provides oversight to lower level license operators including Quality Assurance of data collection and records. Prepares reports, perform communications and record and analyze data using desktop computer software. Reads, interprets and understands technical manuals, drawings, blueprints, and diagrams as related to job duties. Accountable for the efficient operation, in compliance with applicable regulations, of all processes within an assigned work area in a AWT Wastewater Treatment Plant as well as for personal performance and promoting optimal team performance. Performs a variety of public relations related duties; conducts tours and provides educational information.

Other Important Duties

Operates, services, adjusts and conducts routine preventative maintenance to SCADA controlled equipment and related treatment equipment. Adjusts disinfection equipment, records operational and maintenance details, collects process and compliance samples for analysis following appropriate QA procedures, performs routine process sample analysis. Will be required to work varying shifts, hours and locations in order to become trained in all aspects of plant operations. Ensures cleanliness and

safety of facilities by maintaining the work area clean and organized. Performs related work as required and attends training courses, when available, during off-duty hours. Develops training activities and provides instructional training for lower level operators.

DESIRABLE QUALIFICATIONS

Knowledge, Abilities and Skills

Considerable knowledge of the implications of improper sewage treatment for community health and well-being. Considerable knowledge of the occupational hazards involved in sewage treatment and disposal. Considerable knowledge of the rules, regulations and public laws pertaining to sewage treatment plant operations. Considerable knowledge of chemistry and mathematics as they apply to sewage. Considerable knowledge of the methods and practices of modern sewage treatment; standards and normal operating procedures applicable to treatment; the functions and mechanics of pumps and other plant mechanical equipment. Considerable knowledge of the materials, equipment and procedures for activated sludge processes, anaerobic digestion, nitrification/de-nitrification and chlorination. Knowledge of hydraulic principles and electrical safety. Knowledgeable in SCADA systems and can monitor and control plant processes. Must be in good physical condition and able to endure intermittent periods of sitting, standing and walking when collecting samples, operating equipment and changing chemical system. Ability to climb stairs; turn large valves, lift objects weighing over 50 lbs. and use tools requiring a high degree of dexterity. Ability to understand and follow oral and written instructions. Ability to recognize the need to adjust treatment procedures to meet requirements of volumes to be treated. Ability to troubleshoot process problems in many different areas of wastewater treatment. Knowledge and understanding of the lay-out and flow patterns of sewage treatment plants. Ability to understand basic principles of microbiology in relation to wastewater treatment. Ability to learn how to coordinate the work of trainees, develop and participate in training activities of lower level staff as recommended by supervisor.

Minimum Training and Experience

Possession of a high school diploma or an equivalent recognized certificate and two years of experience in the operation and maintenance of a wastewater plant. Studies should have included courses in basic mathematics and chemistry.

Necessary Special Requirements

Applicant must be at least eighteen years of age.

Must possess and maintain a Florida Department of Environmental Protection Class B Wastewater Plant Operator's Certificate.

Must possess and maintain a valid class E State driver's license as a condition for continued employment.

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